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Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

1-53. (Canceled)

54. (Currently Amended) A method for transplanting into a subject a viable xenogeneic cell or tissue comprising:

- (a) transplanting the cell or tissue into the subject, wherein the cell or tissue is surrounded by a semipermeable membrane that is impermeable to immunoglobulins; and
- (b) treating the subject with a prophylactically effective amount of ~~an agent~~ a proteinaceous construct which inhibits an immune system costimulation event mediated by a cell surface molecule selected from the group consisting of B7, CD28, or CTLA4, so as to inhibit the destruction of the transplanted cell or tissue by the subject's immune system.

55. (Previously Presented) The method of claim 54, wherein the semipermeable membrane comprises polylysine-alginate.

56. (Previously Presented) The method of claim 54, wherein the semipermeable membrane is a microcapsule.

57. (Previously Presented) The method of claim 54, wherein the

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semipermeable membrane is double-walled.

58. (Previously Presented) The method of claim 54, wherein the agent is CTLA4.
59. (Previously Presented) The method of claim 54, wherein the agent is CTLA4Ig.
60. (Canceled)
61. (Canceled)
62. (Previously Presented) The method of claim 54, wherein the subject is a mammal.
63. (Previously Presented) The method of claim 54, wherein the subject is selected from the group consisting of a cow, a calf, a pig, a sheep, a lamb, a horse, a chicken and a human.
64. (Previously Presented) The method of claim 63, wherein the subject is a human.
65. (Previously Presented) The method of claim 54, wherein the xenogeneic donor is a mammal.
66. (Previously Presented) The method of claim 65, wherein the mammal is selected from the group consisting of a pig, a cow, a calf, a sheep, a lamb and a human.

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67. (Previously Presented) The method of claim 54, wherein the viable cell or tissue secretes a hormone which promotes growth in an animal.
68. (Previously Presented) The method of claim 54, wherein the viable cell or tissue comprises an endocrine cell or tissue.
69. (Previously Presented) The method of claim 68, wherein the endocrine cell or tissue is selected from the group consisting of an insulin-producing cell or tissue, a hepatocyte or hepatic tissue, a parathyroid cell or tissue and a pituitary cell or tissue.
70. (Previously Presented) A method for transplanting into a subject a viable xenogeneic cell or tissue comprising:
 - (a) transplanting the cell or tissue into the subject, wherein the cell or tissue is surrounded by a semipermeable membrane that is impermeable to immunoglobulins; and
 - (b) treating the subject with a prophylactically effective amount of CTLA4Ig, so as to inhibit the destruction of the transplanted cell or tissue by the subject's immune system.